



1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: **Underworld Resources, Inc.**
1500 - 409 Granville Street
Vancouver BC V6C 1T2 Canada

Submitted By: Jodie Gibson
Receiving Lab: Canada-Vancouver
Received: August 07, 2009
Report Date: August 19, 2009
Page: 1 of 9

CERTIFICATE OF ANALYSIS

VAN09003430.1

CLIENT JOB INFORMATION

Project: PAN
Shipment ID:
P.O. Number
Number of Samples: 232

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Underworld Resources, Inc.
1500 - 409 Granville Street
Vancouver BC V6C 1T2
Canada

CC: Adrian Fleming
Rob McLeod

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	232	Dry at 60C sieve 100g to -80 mesh			VAN
Dry at 60C	232	Dry at 60C			VAN
1DX15	232	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.
** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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		Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
PAN-48341	Soil	1.1	29.8	16.0	343	0.1	14.3	9.2	796	2.90	7.5	0.5	1.7	3.7	28	0.6	0.7	0.3	59	0.23	0.029	
PAN-48342	Soil	0.5	36.7	13.5	97	<0.1	15.9	12.9	857	4.02	5.8	0.6	<0.5	3.2	24	0.1	0.4	0.2	72	0.29	0.047	
PAN-48343	Soil	1.0	12.0	9.0	77	<0.1	13.9	8.1	577	2.72	6.1	0.4	<0.5	1.7	23	0.2	0.4	0.2	63	0.29	0.035	
PAN-48344	Soil	0.9	20.6	9.1	74	<0.1	18.0	9.2	474	3.31	7.9	0.4	3.1	2.8	19	0.1	0.5	0.1	66	0.21	0.022	
PAN-48345	Soil	0.8	18.4	9.7	75	<0.1	17.2	9.4	540	3.08	5.9	0.5	1.9	2.5	20	<0.1	0.5	0.2	68	0.21	0.021	
PAN-48346	Soil	1.0	41.2	8.1	108	<0.1	31.8	11.9	386	3.61	7.9	1.1	1.0	7.7	25	0.1	0.3	0.3	78	0.36	0.087	
PAN-48351	Soil	2.0	55.4	18.8	159	<0.1	45.6	13.9	300	4.70	62.6	2.7	2.4	12.9	22	<0.1	0.5	0.2	52	0.20	0.057	
PAN-48352	Soil	0.8	21.3	9.5	74	<0.1	19.0	8.9	284	3.18	11.1	0.8	1.0	5.6	19	<0.1	0.5	0.2	67	0.19	0.026	
PAN-48354	Soil	0.7	13.9	7.2	76	<0.1	9.8	20.1	602	5.91	7.1	0.6	1.2	2.8	168	<0.1	0.2	0.1	74	0.70	0.151	
PAN-48356	Soil	0.9	37.8	11.2	74	<0.1	28.8	12.1	437	3.34	25.6	0.9	2.5	5.1	122	0.1	0.7	0.2	59	0.70	0.035	
PAN-48357	Soil	1.5	36.6	12.3	85	<0.1	33.1	13.5	348	3.55	14.8	1.4	2.0	9.1	50	0.1	0.5	0.2	63	0.44	0.055	
PAN-48363	Soil	0.6	32.0	8.6	54	<0.1	23.0	10.7	361	3.24	8.2	1.2	5.0	4.3	30	<0.1	0.5	0.1	90	0.39	0.026	
PAN-48364	Soil	0.5	23.6	6.0	38	<0.1	11.3	9.7	246	2.88	4.1	0.6	1.3	3.2	24	<0.1	0.2	<0.1	83	0.30	0.034	
PAN-48365	Soil	0.6	23.4	6.5	47	<0.1	39.2	14.4	319	3.01	4.3	0.6	<0.5	3.3	25	<0.1	0.3	<0.1	86	0.38	0.029	
PAN-48367	Soil	1.6	13.4	14.6	34	<0.1	10.2	5.6	184	2.70	12.7	0.5	1.6	2.1	13	<0.1	0.5	0.2	73	0.14	0.029	
PAN-48359	Soil	0.6	33.3	7.0	60	<0.1	20.0	12.2	450	3.03	5.2	0.5	0.8	3.7	53	<0.1	0.4	0.1	72	0.48	0.037	
PAN-48368	Soil	1.6	13.7	15.2	61	<0.1	15.3	10.9	398	3.17	12.1	0.5	1.1	3.0	16	0.1	0.4	0.2	66	0.15	0.043	
PAN-48369	Soil	1.3	18.3	13.2	88	0.1	23.9	11.1	560	3.24	9.0	0.5	1.5	2.5	21	0.3	0.6	0.2	78	0.26	0.027	
PAN-48370	Soil	0.9	16.7	11.0	63	<0.1	20.3	9.6	625	2.87	8.2	0.3	2.5	2.3	17	0.1	0.5	0.2	76	0.19	0.020	
PAN-48371	Soil	1.2	24.6	10.3	64	<0.1	22.0	10.4	269	3.45	9.3	0.5	<0.5	3.2	13	0.1	0.6	0.2	79	0.12	0.020	
PAN-48372	Soil	1.0	80.1	9.0	134	<0.1	19.7	25.2	1164	6.29	4.2	0.8	0.8	3.7	16	<0.1	0.5	0.2	116	0.45	0.120	
PAN-48382	Soil	0.9	20.1	8.3	49	<0.1	18.2	8.1	275	2.84	7.7	0.5	1.6	1.7	16	<0.1	0.4	0.2	62	0.17	0.031	
PAN-48386	Soil	1.1	21.6	9.1	128	<0.1	19.2	9.1	550	3.43	10.2	0.5	5.7	2.6	15	0.4	0.6	0.1	64	0.13	0.023	
PAN-48387	Soil	1.6	27.5	14.8	166	0.3	8.0	6.4	419	3.67	36.9	0.5	<0.5	2.0	21	0.8	0.5	0.2	44	0.19	0.055	
PAN-48388	Soil	1.0	55.3	13.1	155	0.1	15.4	14.5	828	4.47	9.2	0.5	2.7	1.9	14	0.4	0.5	0.2	70	0.14	0.022	
PAN-48400	Soil	1.0	20.6	7.5	64	<0.1	15.8	11.5	775	2.99	5.7	0.3	1.6	1.9	25	0.1	0.4	0.1	80	0.36	0.046	
PAN-48175	Soil	1.9	67.9	65.3	71	<0.1	47.1	15.5	518	3.93	4.5	1.6	<0.5	9.4	55	<0.1	0.3	0.2	99	0.29	0.058	
PAN-48179	Soil	0.8	22.2	10.3	84	<0.1	31.9	14.9	844	3.70	4.8	0.5	1.2	8.9	27	<0.1	0.3	0.1	60	0.38	0.089	
PAN-48004	Soil	0.8	27.4	11.3	70	<0.1	18.7	18.3	567	4.68	6.7	0.8	1.0	3.8	21	<0.1	0.5	0.2	144	0.23	0.023	
PAN-48267	Soil	0.6	23.0	7.8	52	<0.1	22.3	10.6	323	2.91	7.5	0.7	1.7	3.3	22	<0.1	0.4	0.1	71	0.23	0.041	



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
PAN-48341	Soil	12	30	0.59	447	0.076	2	1.87	0.014	0.12	0.2	0.02	3.3	0.1	<0.05	6	<0.5
PAN-48342	Soil	8	23	0.76	310	0.081	1	2.04	0.010	0.23	0.1	<0.01	6.3	0.1	<0.05	8	<0.5
PAN-48343	Soil	6	24	0.39	263	0.049	<1	1.47	0.011	0.11	0.1	<0.01	2.4	<0.1	<0.05	6	<0.5
PAN-48344	Soil	6	29	0.54	172	0.074	1	1.96	0.011	0.10	0.1	0.01	4.1	<0.1	<0.05	6	<0.5
PAN-48345	Soil	8	33	0.47	251	0.059	1	1.72	0.012	0.05	0.1	0.02	4.1	<0.1	<0.05	6	<0.5
PAN-48346	Soil	16	42	0.63	431	0.149	<1	2.05	0.011	0.64	0.1	<0.01	4.4	0.4	<0.05	6	<0.5
PAN-48351	Soil	61	23	0.34	320	0.034	2	1.41	0.007	0.35	<0.1	0.02	4.8	0.3	<0.05	5	1.1
PAN-48352	Soil	19	33	0.53	243	0.082	<1	1.85	0.011	0.15	0.1	0.01	4.6	0.1	<0.05	6	<0.5
PAN-48354	Soil	14	11	1.04	569	0.170	1	2.19	0.029	0.88	<0.1	0.01	8.5	0.3	<0.05	9	<0.5
PAN-48356	Soil	18	29	0.50	534	0.065	2	1.53	0.026	0.15	0.2	0.04	5.6	<0.1	<0.05	5	0.6
PAN-48357	Soil	23	36	0.50	402	0.089	1	1.66	0.021	0.29	0.2	0.03	5.7	0.2	<0.05	5	0.6
PAN-48363	Soil	15	36	0.59	264	0.115	1	1.99	0.028	0.05	0.1	0.04	7.0	<0.1	<0.05	6	<0.5
PAN-48364	Soil	9	18	0.53	117	0.103	1	1.51	0.024	0.03	<0.1	<0.01	4.0	<0.1	<0.05	5	<0.5
PAN-48365	Soil	13	158	1.02	177	0.136	1	2.00	0.023	0.03	<0.1	<0.01	5.0	<0.1	<0.05	7	<0.5
PAN-48367	Soil	8	25	0.34	113	0.078	<1	1.62	0.015	0.04	0.1	0.02	3.1	0.1	<0.05	7	<0.5
PAN-48359	Soil	10	28	0.68	314	0.108	2	1.69	0.031	0.10	<0.1	0.01	4.6	<0.1	<0.05	5	<0.5
PAN-48368	Soil	10	27	0.48	212	0.086	1	1.94	0.013	0.15	0.1	<0.01	4.4	<0.1	<0.05	7	<0.5
PAN-48369	Soil	8	39	0.49	276	0.055	<1	2.10	0.014	0.06	0.2	<0.01	3.4	0.1	<0.05	6	<0.5
PAN-48370	Soil	7	32	0.44	293	0.068	<1	1.93	0.013	0.04	0.1	0.02	2.9	<0.1	<0.05	6	<0.5
PAN-48371	Soil	8	37	0.52	281	0.074	1	2.34	0.016	0.05	0.1	0.01	3.8	<0.1	<0.05	6	<0.5
PAN-48372	Soil	12	32	1.72	577	0.005	3	2.73	0.007	0.11	<0.1	0.01	13.4	<0.1	<0.05	9	0.6
PAN-48382	Soil	9	31	0.44	207	0.063	<1	1.86	0.013	0.05	0.1	0.03	3.0	<0.1	<0.05	5	0.6
PAN-48386	Soil	7	30	0.50	164	0.070	1	1.85	0.014	0.07	0.1	<0.01	3.6	<0.1	<0.05	5	<0.5
PAN-48387	Soil	7	17	0.31	243	0.036	<1	1.30	0.013	0.13	0.1	<0.01	4.5	0.1	<0.05	5	<0.5
PAN-48388	Soil	6	25	0.32	297	0.026	<1	1.56	0.011	0.08	<0.1	0.02	6.2	0.1	<0.05	6	<0.5
PAN-48400	Soil	6	22	0.64	401	0.085	<1	1.79	0.016	0.16	<0.1	<0.01	3.1	<0.1	<0.05	6	<0.5
PAN-48175	Soil	32	86	0.99	159	0.149	<1	2.20	0.011	0.56	<0.1	<0.01	4.6	0.3	0.06	8	0.9
PAN-48179	Soil	15	42	0.70	426	0.112	<1	2.18	0.012	0.30	0.1	<0.01	3.7	0.1	<0.05	7	<0.5
PAN-48004	Soil	12	29	0.84	179	0.174	<1	2.80	0.024	0.10	<0.1	0.01	6.2	0.1	<0.05	9	<0.5
PAN-48267	Soil	12	36	0.59	186	0.093	<1	2.00	0.014	0.05	0.1	0.02	3.8	<0.1	<0.05	6	<0.5



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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppm 0.1	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01	% 0.001
PAN-48706	Soil	0.7	59.0	9.2	103	<0.1	45.1	18.3	586	5.45	2.4	1.7	0.7	25.8	15	<0.1	<0.1	0.1	58	0.25	0.075
PAN-48707	Soil	0.9	21.9	12.7	81	<0.1	28.0	15.8	510	4.26	6.7	0.9	1.5	9.1	11	<0.1	0.3	0.1	71	0.14	0.066
PAN-48710	Soil	0.9	25.0	6.8	72	<0.1	35.0	12.6	202	3.89	4.1	0.7	1.5	5.5	8	<0.1	0.3	0.1	60	0.08	0.032
PAN-48712	Soil	0.6	27.4	6.7	80	<0.1	37.5	15.4	400	4.94	4.9	2.1	<0.5	22.4	11	<0.1	0.1	<0.1	57	0.10	0.021
PAN-48713	Soil	0.7	32.2	17.7	104	<0.1	37.3	16.7	392	4.88	4.5	1.2	0.8	15.2	15	<0.1	0.2	0.1	77	0.17	0.036
PAN-48714	Soil	0.8	26.2	5.5	65	<0.1	22.7	13.4	982	2.67	3.5	0.5	<0.5	11.2	15	0.2	0.2	<0.1	47	0.15	0.031
PAN-48715	Soil	0.8	22.6	7.4	66	<0.1	33.8	14.4	446	3.99	4.7	1.2	<0.5	8.6	20	<0.1	0.3	0.2	59	0.26	0.029
PAN-48716	Soil	0.7	20.5	6.2	72	<0.1	46.6	19.6	463	4.89	3.7	0.6	<0.5	6.8	16	<0.1	0.1	0.1	86	0.21	0.030
PAN-48717	Soil	0.8	50.8	6.6	62	<0.1	40.3	16.5	425	4.23	3.7	0.9	<0.5	7.3	14	<0.1	0.2	0.1	75	0.14	0.024
PAN-48719	Soil	0.7	56.5	12.7	116	<0.1	38.8	19.0	601	5.16	1.8	1.5	<0.5	16.5	13	<0.1	0.2	0.2	51	0.28	0.078
PAN-48720	Soil	2.1	48.4	6.6	87	<0.1	59.6	23.1	652	5.18	1.6	1.8	1.5	13.8	31	<0.1	0.2	<0.1	38	0.15	0.019
PAN-48721	Soil	1.9	48.9	6.3	85	<0.1	61.1	23.6	669	5.47	1.4	1.8	2.5	15.2	33	<0.1	0.2	<0.1	40	0.15	0.022
PAN-48722	Soil	0.8	15.0	13.3	56	<0.1	20.9	11.9	434	2.82	6.4	0.5	<0.5	9.6	15	0.1	0.4	0.1	52	0.17	0.045
PAN-48723	Soil	0.4	49.3	10.9	94	<0.1	39.8	17.3	328	4.73	2.8	1.0	<0.5	19.3	13	<0.1	0.1	<0.1	53	0.15	0.027
PAN-48724	Soil	0.8	30.7	10.7	61	<0.1	27.2	11.4	261	3.18	8.9	0.9	1.3	8.1	19	<0.1	0.6	0.1	64	0.20	0.028
PAN-48725	Soil	0.7	18.4	9.3	72	<0.1	25.6	12.6	458	3.38	6.6	0.6	<0.5	8.5	18	<0.1	0.3	0.1	56	0.22	0.029
PAN-48726	Soil	1.2	14.4	10.8	95	<0.1	20.5	9.1	346	3.62	4.9	0.6	<0.5	6.4	20	0.2	0.5	0.1	58	0.24	0.046
PAN-48727	Soil	0.6	20.6	10.3	66	<0.1	25.5	10.5	351	3.25	6.2	0.7	0.7	10.8	19	<0.1	0.4	<0.1	51	0.20	0.020
PAN-48728	Soil	0.5	28.1	12.9	82	<0.1	34.0	15.4	613	4.19	3.2	1.0	<0.5	14.9	14	<0.1	0.2	0.1	50	0.21	0.051
PAN-48729	Soil	0.9	27.2	20.7	84	<0.1	41.7	16.5	546	4.41	4.4	1.0	<0.5	13.1	21	<0.1	0.3	0.1	69	0.34	0.079
PAN-48730	Soil	0.5	42.2	11.5	102	<0.1	38.2	13.3	301	4.56	3.6	1.8	2.8	30.1	13	<0.1	0.2	<0.1	36	0.18	0.027
PAN-48731	Soil	0.5	43.7	12.1	105	<0.1	39.5	13.3	315	4.55	3.2	1.8	1.9	31.6	13	<0.1	0.2	<0.1	35	0.20	0.032
PAN-48732	Soil	1.2	27.7	10.2	65	<0.1	23.3	10.4	436	3.39	10.8	1.2	6.3	4.5	22	<0.1	0.6	0.2	69	0.21	0.031
PAN-48743	Soil	0.6	32.8	10.1	123	<0.1	13.9	9.0	674	3.89	4.2	0.9	1.6	3.8	35	0.2	0.3	0.1	46	0.39	0.064
PAN-48745	Soil	0.8	26.2	19.1	97	0.2	19.8	11.2	654	3.23	6.8	1.0	2.3	2.3	29	0.3	0.4	0.2	58	0.32	0.062
PAN-48746	Soil	0.8	30.4	21.2	88	0.1	16.5	8.8	482	3.28	6.9	0.9	2.0	2.1	28	0.2	0.4	0.2	61	0.26	0.048
PAN-48747	Soil	1.2	31.0	15.9	114	0.1	14.8	8.9	429	3.15	6.4	0.9	2.9	4.1	26	0.1	0.4	0.2	54	0.28	0.051
PAN-48748	Soil	0.8	28.5	13.8	86	<0.1	16.6	9.8	346	2.98	7.4	1.1	5.7	3.6	24	0.1	0.4	0.2	55	0.27	0.059
PAN-48749	Soil	0.7	24.9	11.0	67	<0.1	17.0	7.7	214	2.58	6.2	0.9	3.1	2.6	22	0.2	0.4	0.2	53	0.26	0.054
PAN-48750	Soil	0.7	24.7	10.9	68	<0.1	18.2	9.1	325	2.68	7.0	0.9	3.7	3.6	22	0.1	0.4	0.2	55	0.25	0.042



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
PAN-48706	Soil	74	60	0.74	280	0.169	<1	1.69	0.008	0.93	<0.1	<0.01	7.4	0.6	<0.05	6	0.6
PAN-48707	Soil	15	49	0.73	165	0.188	<1	2.25	0.014	0.54	<0.1	<0.01	3.3	0.4	<0.05	9	<0.5
PAN-48710	Soil	9	36	0.57	117	0.069	<1	1.98	0.008	0.18	<0.1	<0.01	3.0	0.2	<0.05	7	<0.5
PAN-48712	Soil	35	59	1.09	247	0.301	<1	2.50	0.008	1.15	<0.1	<0.01	5.2	0.7	<0.05	9	<0.5
PAN-48713	Soil	24	69	1.08	287	0.191	<1	2.98	0.012	0.97	<0.1	<0.01	5.2	0.5	<0.05	11	<0.5
PAN-48714	Soil	24	26	0.40	273	0.036	<1	1.55	0.012	0.13	0.1	<0.01	3.1	<0.1	<0.05	5	<0.5
PAN-48715	Soil	10	47	1.12	406	0.149	3	2.48	0.012	0.78	0.1	<0.01	3.9	0.4	<0.05	8	<0.5
PAN-48716	Soil	10	85	1.70	1186	0.241	<1	4.18	0.018	1.18	<0.1	<0.01	5.7	0.6	<0.05	14	<0.5
PAN-48717	Soil	9	69	1.51	296	0.254	1	3.17	0.015	1.15	<0.1	0.01	6.3	0.5	<0.05	11	<0.5
PAN-48719	Soil	15	55	1.16	218	0.249	1	2.83	0.007	1.31	<0.1	0.01	4.6	1.0	<0.05	9	<0.5
PAN-48720	Soil	22	27	0.51	230	0.055	2	1.22	0.007	0.36	<0.1	0.05	6.7	0.4	<0.05	4	0.7
PAN-48721	Soil	23	27	0.51	231	0.059	3	1.18	0.006	0.37	<0.1	0.04	6.8	0.3	<0.05	4	0.6
PAN-48722	Soil	9	35	0.49	193	0.071	<1	1.95	0.010	0.16	<0.1	0.02	2.6	0.1	<0.05	6	<0.5
PAN-48723	Soil	25	58	1.29	227	0.332	<1	2.98	0.011	1.30	0.1	<0.01	3.9	0.8	<0.05	10	<0.5
PAN-48724	Soil	21	38	0.56	220	0.085	1	2.27	0.015	0.13	<0.1	0.02	4.7	0.1	<0.05	5	<0.5
PAN-48725	Soil	13	40	0.75	273	0.168	<1	2.19	0.011	0.37	<0.1	0.02	3.5	0.3	<0.05	7	<0.5
PAN-48726	Soil	9	31	0.48	214	0.072	<1	1.92	0.010	0.23	<0.1	0.01	3.4	0.1	<0.05	7	<0.5
PAN-48727	Soil	16	39	0.70	201	0.172	1	1.75	0.013	0.48	<0.1	0.02	3.6	0.3	<0.05	6	<0.5
PAN-48728	Soil	13	54	0.97	230	0.257	<1	2.39	0.008	1.08	<0.1	<0.01	3.5	0.6	<0.05	8	<0.5
PAN-48729	Soil	19	92	1.27	224	0.179	<1	2.79	0.010	0.81	<0.1	0.01	5.1	0.4	<0.05	11	<0.5
PAN-48730	Soil	130	36	0.59	112	0.033	2	1.70	0.006	0.14	<0.1	0.02	6.4	0.2	<0.05	5	<0.5
PAN-48731	Soil	125	34	0.57	97	0.029	<1	1.46	0.006	0.12	<0.1	0.01	6.3	0.1	<0.05	5	<0.5
PAN-48732	Soil	18	38	0.58	229	0.084	2	2.55	0.015	0.06	0.1	0.04	7.0	0.1	<0.05	7	0.6
PAN-48743	Soil	18	23	0.82	314	0.172	<1	1.84	0.018	0.44	0.1	0.02	10.0	0.1	<0.05	8	<0.5
PAN-48745	Soil	14	32	0.59	223	0.091	<1	2.13	0.016	0.09	<0.1	0.04	6.0	0.1	<0.05	8	<0.5
PAN-48746	Soil	13	26	0.56	199	0.099	2	1.89	0.015	0.09	0.1	0.03	5.2	<0.1	<0.05	7	<0.5
PAN-48747	Soil	14	23	0.75	203	0.113	1	2.03	0.015	0.19	0.1	0.02	4.9	0.1	<0.05	8	<0.5
PAN-48748	Soil	17	28	0.58	216	0.090	2	1.94	0.015	0.07	0.2	0.04	5.2	0.1	<0.05	6	<0.5
PAN-48749	Soil	16	28	0.50	171	0.082	2	1.88	0.015	0.06	0.2	0.04	4.2	0.1	<0.05	6	<0.5
PAN-48750	Soil	14	30	0.48	183	0.084	<1	1.82	0.014	0.06	0.1	0.02	4.3	<0.1	<0.05	6	<0.5



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CERTIFICATE OF ANALYSIS

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	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15			
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
PAN-48751	Soil		0.6	23.8	9.1	59	<0.1	19.0	8.3	390	2.46	5.9	0.9	<0.5	4.4	25	0.1	0.3	0.1	54	0.32	0.058		
PAN-48753	Soil		0.8	22.2	11.2	66	<0.1	22.2	10.7	410	2.94	8.4	0.8	3.9	4.5	25	0.2	0.4	0.2	65	0.29	0.054		
PAN-48754	Soil		0.6	22.4	10.7	63	<0.1	14.7	8.8	490	2.65	5.6	0.9	1.8	3.5	23	0.1	0.4	0.2	56	0.25	0.038		
PAN-48755	Soil		0.8	17.8	20.7	70	<0.1	16.0	9.9	575	2.89	6.8	0.8	5.4	3.6	21	0.2	0.4	0.2	62	0.22	0.051		
PAN-48756	Soil		1.2	13.2	22.3	54	<0.1	16.5	8.2	285	2.97	9.7	0.6	2.1	3.3	16	0.1	0.4	0.2	81	0.15	0.031		
PAN-48757	Soil		0.8	30.5	40.7	91	<0.1	17.3	8.6	374	3.21	7.7	1.0	1.2	7.2	20	<0.1	0.4	0.3	65	0.21	0.032		
PAN-48758	Soil		0.9	29.0	40.7	97	<0.1	18.1	8.9	381	3.35	8.1	1.0	3.6	7.6	20	0.1	0.5	0.3	66	0.19	0.034		
PAN-48761	Soil		0.7	21.0	13.9	75	<0.1	16.4	7.8	268	2.72	5.7	1.1	6.3	4.6	21	0.1	0.5	0.2	56	0.28	0.045		
PAN-48763	Soil		1.1	42.4	8.6	89	0.2	17.8	19.8	651	4.77	7.5	0.4	1.1	2.0	24	<0.1	0.6	0.2	138	0.28	0.036		
PAN-48764	Soil		1.7	98.0	7.0	61	<0.1	7.5	12.2	214	7.10	3.4	1.4	5.6	3.3	43	<0.1	0.4	<0.1	123	0.38	0.047		
PAN-48767	Soil		3.8	66.7	7.2	103	<0.1	10.2	14.6	381	5.03	4.2	0.6	0.6	1.9	20	<0.1	0.2	<0.1	112	0.28	0.063		
PAN-48768	Soil		0.8	40.0	5.0	92	<0.1	10.0	14.6	512	4.63	4.5	0.3	<0.5	1.4	22	<0.1	0.2	<0.1	95	0.31	0.056		
PAN-48769	Soil		0.9	23.3	7.6	64	<0.1	18.2	12.1	404	3.23	8.3	0.4	1.0	2.1	15	0.2	0.5	0.1	82	0.17	0.022		
PAN-48770	Soil		0.5	85.4	4.1	94	<0.1	16.9	19.8	690	4.38	3.1	0.4	0.7	1.3	28	0.1	0.2	<0.1	112	0.58	0.093		
PAN-48771	Soil		0.7	23.6	5.8	63	<0.1	19.7	13.3	338	3.13	6.8	0.3	1.6	2.2	17	<0.1	0.3	0.1	82	0.23	0.030		
PAN-48772	Soil		0.4	50.5	3.5	92	<0.1	20.3	19.5	648	3.83	3.2	0.4	1.2	2.1	18	0.1	0.2	<0.1	107	0.32	0.058		
PAN-48773	Soil		0.5	50.6	4.0	96	<0.1	13.4	18.4	333	4.22	2.8	0.2	<0.5	0.9	14	0.1	0.1	<0.1	139	0.31	0.049		
PAN-48774	Soil		1.1	43.9	8.1	88	<0.1	16.5	16.2	469	4.11	9.8	0.4	1.1	1.8	17	<0.1	0.4	0.1	100	0.18	0.017		
PAN-48775	Soil		0.6	14.9	8.2	62	<0.1	13.5	10.9	412	3.26	7.9	0.5	<0.5	4.9	16	<0.1	0.6	<0.1	63	0.16	0.018		
PAN-48777	Soil		0.5	31.3	3.2	100	<0.1	9.5	15.0	625	4.05	3.4	0.2	<0.5	0.7	20	<0.1	0.2	<0.1	110	0.26	0.030		
PAN-48778	Soil		0.3	31.9	2.3	129	<0.1	7.6	16.3	537	3.79	2.1	0.1	<0.5	0.4	19	0.2	0.1	<0.1	101	0.30	0.063		
PAN-48780	Soil		0.9	27.6	11.1	70	<0.1	23.6	10.6	303	3.32	12.4	0.4	<0.5	2.4	15	<0.1	0.5	0.1	83	0.16	0.025		
PAN-48781	Soil		0.5	51.6	3.5	93	<0.1	7.8	17.8	558	4.31	2.8	0.2	<0.5	0.8	29	<0.1	0.1	<0.1	100	0.42	0.033		
PAN-48782	Soil		0.6	49.1	4.3	94	<0.1	9.3	17.4	540	4.45	3.9	0.3	<0.5	1.0	29	<0.1	0.2	<0.1	102	0.39	0.031		
PAN-48785	Soil		0.5	58.8	7.6	184	<0.1	12.9	20.2	860	5.55	10.0	0.7	0.8	1.5	15	0.2	0.6	<0.1	145	0.43	0.041		
PAN-48788	Soil		1.4	68.8	20.7	145	<0.1	37.6	12.6	231	3.78	35.9	1.5	<0.5	14.9	12	0.1	0.6	0.3	63	0.34	0.108		
PAN-48789	Soil		1.7	50.6	15.9	143	<0.1	35.3	11.3	232	3.76	18.4	1.7	1.0	11.3	12	<0.1	0.4	0.5	58	0.34	0.105		
PAN-48792	Soil		1.3	48.5	11.7	124	<0.1	22.4	23.0	1118	6.00	32.0	1.4	3.1	7.4	13	0.1	0.7	0.2	109	0.47	0.123		
PAN-48799	Soil		0.5	54.1	3.6	169	<0.1	12.6	29.4	954	6.02	1.3	0.5	0.7	2.7	30	<0.1	<0.1	<0.1	214	0.34	0.026		
PAN-48800	Soil		0.8	25.7	9.6	53	<0.1	19.4	9.5	272	2.94	8.6	0.8	2.7	2.6	21	<0.1	0.4	0.2	68	0.23	0.054		



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
PAN-48751	Soil	23	27	0.51	189	0.090	2	1.46	0.016	0.05	0.2	0.02	4.5	<0.1	<0.05	4	<0.5
PAN-48753	Soil	14	36	0.54	170	0.094	2	2.25	0.016	0.06	0.1	0.03	4.3	<0.1	<0.05	5	<0.5
PAN-48754	Soil	20	26	0.44	176	0.081	<1	1.63	0.014	0.05	0.1	0.02	4.1	<0.1	<0.05	6	<0.5
PAN-48755	Soil	12	28	0.43	161	0.082	1	1.90	0.012	0.06	0.2	0.03	3.9	<0.1	<0.05	7	<0.5
PAN-48756	Soil	11	34	0.40	150	0.093	2	2.27	0.013	0.05	0.1	0.02	3.5	<0.1	<0.05	8	<0.5
PAN-48757	Soil	29	31	0.40	189	0.079	2	2.19	0.014	0.06	0.1	0.02	6.1	0.1	<0.05	7	<0.5
PAN-48758	Soil	29	32	0.43	188	0.072	3	2.17	0.012	0.06	0.1	0.03	5.8	<0.1	<0.05	7	<0.5
PAN-48761	Soil	18	28	0.44	173	0.081	2	1.65	0.018	0.05	0.2	0.04	4.4	<0.1	<0.05	5	<0.5
PAN-48763	Soil	8	30	1.09	188	0.105	<1	3.13	0.018	0.04	0.1	0.02	8.3	<0.1	<0.05	9	<0.5
PAN-48764	Soil	8	17	0.77	170	0.128	<1	2.90	0.013	0.05	<0.1	0.07	8.5	<0.1	<0.05	9	1.7
PAN-48767	Soil	7	20	1.07	392	0.203	<1	3.10	0.042	0.45	<0.1	0.02	7.9	0.1	0.10	9	0.5
PAN-48768	Soil	4	18	1.30	391	0.215	<1	3.08	0.021	0.66	<0.1	<0.01	4.5	0.2	<0.05	9	<0.5
PAN-48769	Soil	8	33	0.63	193	0.089	<1	2.14	0.020	0.06	<0.1	<0.01	3.2	<0.1	<0.05	7	<0.5
PAN-48770	Soil	4	26	1.77	540	0.267	<1	2.56	0.021	0.73	<0.1	0.01	4.9	0.2	<0.05	7	<0.5
PAN-48771	Soil	7	32	0.86	184	0.146	<1	2.05	0.012	0.18	0.1	<0.01	2.7	<0.1	<0.05	6	<0.5
PAN-48772	Soil	7	36	1.61	356	0.235	<1	2.35	0.019	0.83	0.1	<0.01	3.7	0.2	<0.05	7	<0.5
PAN-48773	Soil	6	16	1.74	371	0.206	<1	2.44	0.024	0.46	<0.1	<0.01	5.2	0.2	<0.05	9	<0.5
PAN-48774	Soil	5	27	0.92	402	0.133	<1	2.28	0.012	0.25	<0.1	<0.01	5.2	0.2	<0.05	7	<0.5
PAN-48775	Soil	10	20	0.71	394	0.047	1	1.94	0.009	0.14	<0.1	<0.01	3.4	<0.1	<0.05	7	<0.5
PAN-48777	Soil	2	19	1.36	420	0.247	<1	2.51	0.020	0.87	<0.1	<0.01	3.2	0.3	<0.05	7	<0.5
PAN-48778	Soil	1	12	1.35	430	0.274	<1	2.23	0.023	0.87	<0.1	<0.01	2.5	0.3	<0.05	6	<0.5
PAN-48780	Soil	6	37	0.64	258	0.100	<1	2.52	0.012	0.10	<0.1	0.01	3.2	<0.1	<0.05	7	<0.5
PAN-48781	Soil	3	9	1.18	377	0.242	<1	2.20	0.017	0.65	<0.1	<0.01	4.4	0.2	<0.05	6	<0.5
PAN-48782	Soil	3	12	1.31	400	0.255	<1	2.25	0.017	0.69	<0.1	<0.01	4.2	0.2	<0.05	6	<0.5
PAN-48785	Soil	9	16	1.25	344	0.021	2	2.30	0.013	0.06	<0.1	0.02	16.1	<0.1	<0.05	9	0.5
PAN-48788	Soil	32	32	0.71	275	0.172	<1	1.73	0.009	0.69	<0.1	<0.01	4.6	0.5	<0.05	6	1.0
PAN-48789	Soil	18	39	0.69	301	0.182	<1	1.79	0.010	0.78	<0.1	0.01	4.5	0.4	<0.05	7	0.7
PAN-48792	Soil	42	11	0.38	300	0.010	1	1.08	0.006	0.10	<0.1	0.04	15.0	<0.1	<0.05	4	0.7
PAN-48799	Soil	9	16	2.16	278	0.251	<1	2.52	0.025	1.59	<0.1	<0.01	9.6	0.8	<0.05	10	<0.5
PAN-48800	Soil	13	31	0.59	219	0.079	<1	2.01	0.014	0.05	0.2	0.03	4.3	<0.1	<0.05	5	<0.5



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Project: PAN
Report Date: August 19, 2009

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CERTIFICATE OF ANALYSIS

VAN09003430.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo ppm 0.1	Cu ppm 0.1	Pb ppm 0.1	Zn ppm 1	Ag ppm 0.1	Ni ppm 0.1	Co ppm 0.1	Mn ppm 1	Fe % 0.01	As ppm 0.5	U ppm 0.1	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001
PAN-48803	Soil	0.9	25.5	7.7	63	<0.1	19.2	9.5	362	3.04	8.7	0.7	2.2	2.8	20	<0.1	0.4	0.1	57	0.19	0.023
PAN-48804	Soil	0.6	15.3	5.8	92	<0.1	17.4	11.7	375	3.69	7.6	0.4	3.2	2.9	14	0.1	0.5	0.1	47	0.17	0.049
PAN-48806	Soil	1.2	22.2	9.5	97	<0.1	13.5	6.7	450	4.13	9.3	0.5	1.0	2.3	13	0.1	0.6	0.2	57	0.13	0.027
PAN-48810	Soil	0.8	37.9	7.7	124	<0.1	17.9	7.6	598	4.06	6.4	0.7	1.3	3.7	27	0.1	0.5	0.1	50	0.31	0.026
PAN-48811	Soil	0.7	29.6	11.5	75	<0.1	18.9	9.1	490	3.08	8.5	0.9	1.4	3.5	20	0.1	0.5	0.1	54	0.18	0.021
PAN-48812	Soil	1.3	20.4	18.1	90	<0.1	18.0	7.5	498	4.21	9.4	0.6	2.5	2.3	13	0.2	0.5	0.2	61	0.14	0.045
PAN-48813	Soil	1.3	21.9	9.5	68	<0.1	19.1	7.4	324	3.67	9.9	0.5	2.5	2.6	14	0.1	0.5	0.2	66	0.14	0.028
PAN-48814	Soil	1.0	14.1	11.7	78	<0.1	9.0	4.7	489	3.60	7.2	0.7	1.2	2.3	13	0.1	0.6	0.1	38	0.14	0.033
PAN-48816	Soil	1.1	25.2	50.2	88	<0.1	16.9	7.6	381	3.60	8.6	0.6	1.8	2.5	16	0.2	0.6	0.4	51	0.16	0.029
PAN-48819	Soil	1.4	16.5	15.7	60	<0.1	18.4	11.0	361	3.69	11.3	0.4	1.1	2.7	15	<0.1	0.4	0.2	82	0.15	0.041
PAN-48820	Soil	0.9	17.9	12.9	47	<0.1	16.6	7.2	265	2.60	7.7	0.4	1.3	2.7	25	<0.1	0.3	0.2	59	0.21	0.028
PAN-48823	Soil	0.6	36.4	9.3	45	<0.1	24.6	12.3	302	2.73	8.4	0.5	3.0	2.8	24	<0.1	0.5	0.1	68	0.32	0.020
PAN-48826	Soil	1.1	18.3	8.9	39	<0.1	14.7	7.4	208	2.89	9.9	0.3	1.7	1.6	16	<0.1	0.4	0.2	77	0.20	0.029
PAN-48827	Soil	1.1	41.0	8.9	44	<0.1	21.1	14.6	240	2.62	6.8	0.2	1.1	0.9	22	<0.1	0.6	0.1	73	0.31	0.031
PAN-48340	Soil	0.9	23.3	9.6	88	<0.1	20.6	8.5	366	2.79	10.2	0.6	1.4	3.3	21	0.2	0.5	0.2	63	0.18	0.016
PAN-48851	Soil	0.6	36.5	7.4	54	<0.1	28.1	10.6	511	2.50	10.1	0.5	4.6	2.7	56	0.1	0.5	0.1	54	1.61	0.089
PAN-48852	Soil	0.7	18.2	9.3	56	<0.1	19.5	8.7	507	2.56	8.1	0.5	1.3	3.1	34	0.1	0.4	0.1	60	0.47	0.033
PAN-48853	Soil	0.6	32.3	7.7	49	<0.1	24.2	10.0	437	2.65	9.4	0.6	2.9	3.3	40	<0.1	0.5	0.1	63	0.48	0.043
PAN-48858	Soil	1.0	20.9	9.6	56	<0.1	14.7	10.6	321	3.77	8.7	1.1	1.9	3.0	17	<0.1	0.3	0.2	97	0.19	0.053
PAN-48870	Soil	0.7	22.1	8.1	51	<0.1	19.7	8.4	360	2.84	8.4	0.9	2.5	3.0	26	<0.1	0.4	0.1	73	0.22	0.021
PAN-48872	Soil	0.7	27.2	9.0	57	<0.1	22.3	11.7	451	3.15	9.8	0.9	3.4	3.4	23	<0.1	0.4	0.2	74	0.20	0.034
PAN-48873	Soil	0.9	16.1	7.7	48	<0.1	19.4	7.5	242	2.74	9.8	0.5	1.8	1.0	18	0.1	0.4	0.1	65	0.20	0.049
PAN-48874	Soil	1.0	20.0	9.6	70	<0.1	26.6	11.8	343	3.07	11.0	0.5	2.9	3.0	15	0.2	0.6	0.2	74	0.13	0.027
PAN-48875	Soil	0.9	27.9	9.0	85	<0.1	17.9	11.2	553	3.97	7.7	1.0	1.9	3.0	23	0.1	0.6	0.1	99	0.19	0.026
PAN-48876	Soil	0.8	19.5	7.1	58	<0.1	17.1	7.8	471	3.15	7.6	0.5	1.6	1.9	27	0.2	0.5	0.1	82	0.22	0.030
PAN-48877	Soil	0.8	20.9	7.5	64	<0.1	16.3	7.8	447	3.34	6.8	0.7	0.7	2.6	26	0.1	0.5	0.1	95	0.20	0.017
PAN-48878	Soil	0.6	22.2	6.2	49	<0.1	18.6	8.2	369	2.62	6.9	0.6	1.7	3.0	27	0.1	0.5	0.1	71	0.31	0.027
PAN-48880	Soil	0.9	18.8	8.3	73	<0.1	19.9	9.3	504	3.08	9.1	0.5	<0.5	3.2	22	0.2	0.6	0.1	82	0.19	0.019
PAN-48881	Soil	1.0	11.7	8.7	55	<0.1	14.2	9.3	979	3.08	6.9	0.3	0.7	2.0	20	0.1	0.8	0.1	83	0.18	0.016
PAN-48882	Soil	1.0	9.6	6.4	39	<0.1	11.8	6.1	371	2.17	6.6	0.3	0.7	2.2	12	0.2	0.4	0.1	64	0.13	0.013



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Part 2

CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
PAN-48803	Soil	12	31	0.54	203	0.078	<1	1.98	0.016	0.06	0.1	0.05	5.6	<0.1	<0.05	6	<0.5
PAN-48804	Soil	8	24	0.68	182	0.108	<1	2.37	0.015	0.22	0.1	0.02	6.1	<0.1	<0.05	7	<0.5
PAN-48806	Soil	6	25	0.42	126	0.087	3	1.87	0.011	0.15	0.1	0.02	6.7	0.1	<0.05	8	<0.5
PAN-48810	Soil	19	29	0.60	265	0.124	2	1.75	0.024	0.29	0.1	0.03	10.4	0.1	<0.05	8	<0.5
PAN-48811	Soil	22	31	0.51	228	0.082	<1	1.87	0.016	0.07	0.1	0.04	7.7	<0.1	<0.05	6	<0.5
PAN-48812	Soil	12	27	0.43	178	0.061	1	2.29	0.010	0.09	0.1	0.03	6.7	<0.1	<0.05	9	<0.5
PAN-48813	Soil	11	33	0.50	164	0.084	<1	2.08	0.012	0.07	<0.1	0.02	5.0	<0.1	<0.05	7	<0.5
PAN-48814	Soil	8	17	0.32	135	0.018	1	1.41	0.007	0.06	<0.1	0.02	6.7	<0.1	<0.05	5	<0.5
PAN-48816	Soil	8	28	0.42	206	0.055	<1	1.94	0.011	0.06	0.2	0.02	5.7	<0.1	<0.05	6	<0.5
PAN-48819	Soil	7	31	0.48	200	0.090	<1	2.15	0.013	0.07	0.1	0.02	3.6	<0.1	<0.05	8	<0.5
PAN-48820	Soil	8	26	0.40	318	0.060	<1	1.71	0.011	0.05	0.1	0.02	3.3	<0.1	<0.05	6	<0.5
PAN-48823	Soil	11	38	0.59	246	0.088	<1	1.83	0.025	0.04	0.1	0.05	4.8	<0.1	<0.05	5	<0.5
PAN-48826	Soil	8	28	0.39	143	0.072	<1	1.70	0.014	0.04	0.1	0.01	2.5	<0.1	<0.05	7	<0.5
PAN-48827	Soil	4	35	0.57	134	0.098	2	1.82	0.029	0.04	<0.1	0.02	2.9	<0.1	<0.05	6	<0.5
PAN-48340	Soil	11	38	0.53	383	0.075	<1	1.96	0.012	0.05	0.1	0.03	3.7	<0.1	<0.05	5	<0.5
PAN-48851	Soil	12	27	0.68	272	0.082	2	1.25	0.037	0.06	0.1	0.04	3.9	<0.1	<0.05	4	<0.5
PAN-48852	Soil	11	32	0.50	320	0.077	2	1.55	0.022	0.08	<0.1	0.02	4.7	<0.1	<0.05	5	<0.5
PAN-48853	Soil	13	32	0.56	327	0.085	1	1.46	0.043	0.05	0.2	0.03	4.8	<0.1	<0.05	4	<0.5
PAN-48858	Soil	12	28	0.50	158	0.057	2	2.08	0.009	0.05	0.1	0.03	6.5	0.1	<0.05	7	<0.5
PAN-48870	Soil	15	36	0.54	236	0.072	2	2.11	0.015	0.04	<0.1	0.03	6.0	<0.1	<0.05	5	<0.5
PAN-48872	Soil	14	37	0.56	218	0.081	<1	2.25	0.014	0.05	0.2	0.04	5.8	0.1	<0.05	6	<0.5
PAN-48873	Soil	10	28	0.47	152	0.065	2	1.68	0.012	0.05	0.1	0.02	2.7	<0.1	<0.05	6	<0.5
PAN-48874	Soil	9	37	0.51	228	0.074	1	2.43	0.015	0.05	0.1	0.03	3.4	<0.1	<0.05	6	<0.5
PAN-48875	Soil	17	32	0.52	208	0.070	<1	1.98	0.011	0.07	<0.1	0.03	8.9	0.1	<0.05	7	0.7
PAN-48876	Soil	9	27	0.46	189	0.067	2	1.68	0.011	0.03	0.1	0.02	4.5	<0.1	<0.05	6	<0.5
PAN-48877	Soil	15	27	0.42	152	0.059	<1	1.72	0.011	0.03	0.1	0.02	7.6	<0.1	<0.05	5	<0.5
PAN-48878	Soil	14	32	0.51	215	0.071	<1	1.59	0.016	0.03	0.1	0.02	5.4	<0.1	<0.05	5	<0.5
PAN-48880	Soil	10	36	0.49	183	0.069	1	2.06	0.011	0.05	0.1	0.02	4.7	<0.1	<0.05	6	<0.5
PAN-48881	Soil	6	27	0.43	217	0.041	<1	1.92	0.011	0.04	<0.1	0.03	4.2	<0.1	<0.05	6	<0.5
PAN-48882	Soil	5	21	0.31	163	0.018	2	1.49	0.007	0.04	0.1	0.01	1.9	<0.1	<0.05	5	<0.5



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppm 0.1	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01
PAN-48883	Soil	0.8	17.4	7.2	52	<0.1	18.3	9.1	380	2.75	8.6	0.5	0.6	3.1	16	<0.1	0.5	0.1	79	0.20
PAN-48884	Soil	1.0	20.4	8.8	55	<0.1	22.8	10.9	477	3.07	9.6	0.7	1.4	3.2	28	0.1	0.6	0.2	74	0.26
PAN-48885	Soil	0.3	74.3	6.0	109	<0.1	6.5	20.6	957	6.67	2.8	0.7	<0.5	1.5	29	<0.1	0.1	<0.1	185	0.29
PAN-48887	Soil	1.0	18.2	8.5	60	<0.1	19.0	9.7	520	3.02	7.8	0.4	<0.5	2.5	24	0.2	0.5	0.2	80	0.19
PAN-48889	Soil	1.0	23.5	8.9	67	<0.1	15.4	10.3	425	3.24	7.9	0.5	1.2	2.6	29	0.2	0.5	0.1	84	0.24
PAN-48896	Soil	1.2	14.6	16.0	59	<0.1	20.3	9.1	817	2.90	8.4	0.4	0.6	2.1	19	0.2	0.5	0.2	69	0.19
PAN-48897	Soil	0.8	33.8	55.6	69	<0.1	15.7	16.9	807	3.55	5.2	0.3	<0.5	1.0	17	<0.1	0.4	0.2	100	0.20
PAN-48898	Soil	0.7	15.7	21.8	58	<0.1	14.8	10.1	684	2.98	5.1	0.3	<0.5	1.6	19	<0.1	0.4	0.1	64	0.23
PAN-48899	Soil	0.6	52.2	7.1	58	<0.1	16.2	12.8	516	3.63	6.3	0.3	2.7	1.8	24	<0.1	0.4	0.1	96	0.24
PAN-48900	Soil	0.8	343.3	5.4	71	<0.1	13.3	24.9	542	8.57	2.5	0.5	<0.5	1.3	24	<0.1	0.2	<0.1	179	0.28
PAN-48901	Soil	1.1	20.7	11.2	56	<0.1	17.2	8.5	609	3.79	9.5	0.6	<0.5	2.7	32	0.2	0.4	0.1	52	0.28
PAN-48902	Soil	1.4	55.5	9.1	144	<0.1	18.7	8.2	535	4.29	5.6	0.7	7.8	3.1	20	<0.1	0.2	<0.1	61	0.22
PAN-48903	Soil	1.7	37.8	14.2	73	<0.1	9.0	6.8	446	3.73	7.9	1.0	4.7	4.2	16	0.1	0.3	0.1	37	0.13
PAN-48904	Soil	1.0	30.8	11.1	51	<0.1	19.5	10.0	488	3.22	9.9	0.5	2.8	3.1	17	0.1	0.5	0.1	57	0.16
PAN-48906	Soil	1.4	52.1	15.2	132	<0.1	34.1	11.5	271	3.45	13.9	1.3	3.9	9.5	17	<0.1	0.4	0.2	60	0.21
PAN-48907	Soil	1.4	49.2	12.6	127	<0.1	43.1	14.0	311	4.27	6.0	1.5	1.4	12.1	17	<0.1	0.3	0.2	80	0.18
PAN-48908	Soil	1.4	45.8	17.4	107	<0.1	33.2	9.8	232	3.39	9.1	1.5	2.8	8.8	26	<0.1	0.3	0.2	60	0.28
PAN-48910	Soil	0.9	60.7	13.0	153	<0.1	47.4	14.3	437	4.98	3.5	1.4	0.6	13.1	27	<0.1	0.1	0.2	121	0.35
PAN-48911	Soil	0.6	56.1	12.8	132	<0.1	45.8	11.7	373	4.09	4.0	1.8	<0.5	13.3	27	<0.1	0.1	<0.1	87	0.27
PAN-48912	Soil	0.6	104.9	16.3	153	<0.1	51.7	13.6	238	4.18	4.4	1.0	0.7	10.3	20	0.1	0.2	0.2	95	0.20
PAN-48914	Soil	1.6	42.5	11.8	98	<0.1	38.9	13.5	526	3.54	9.5	1.8	<0.5	8.5	22	<0.1	0.4	0.1	73	0.23
PAN-48915	Soil	0.6	49.7	8.3	64	<0.1	13.5	19.5	481	3.78	4.7	0.3	<0.5	1.4	21	<0.1	0.3	<0.1	117	0.35
PAN-48916	Soil	0.3	101.0	2.8	57	<0.1	11.6	23.3	435	3.58	2.0	0.2	<0.5	0.8	22	<0.1	0.1	<0.1	113	0.40
PAN-48917	Soil	0.9	22.5	13.3	50	<0.1	22.5	10.6	235	2.95	8.4	0.5	4.1	2.9	20	0.1	0.5	0.1	74	0.18
PAN-48918	Soil	0.8	25.4	12.3	56	<0.1	24.9	12.3	390	2.91	9.8	0.5	3.2	3.6	27	<0.1	0.5	0.1	73	0.27
PAN-48919	Soil	2.0	24.5	15.9	65	0.1	17.0	11.4	819	3.14	5.9	0.4	<0.5	2.1	27	0.2	0.4	0.1	68	0.29
PAN-48920	Soil	0.7	56.5	13.2	63	<0.1	18.2	21.1	558	3.66	3.9	0.2	0.7	1.0	126	<0.1	0.2	<0.1	104	0.46
PAN-48921	Soil	0.6	176.7	5.4	71	<0.1	15.1	24.1	596	4.09	3.0	0.2	1.1	0.8	135	<0.1	0.3	<0.1	122	0.52
PAN-48922	Soil	0.7	43.7	19.2	93	<0.1	10.9	21.2	645	5.13	3.2	0.3	1.0	0.8	174	<0.1	0.2	<0.1	134	0.46
PAN-48923	Soil	1.0	22.8	13.4	65	<0.1	16.9	12.0	505	3.43	6.4	0.4	20.3	2.1	55	0.1	0.5	0.1	77	0.33



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
PAN-48883	Soil	9	31	0.43	162	0.031	2	1.84	0.009	0.05	0.1	0.02	4.4	<0.1	<0.05	5	<0.5
PAN-48884	Soil	9	35	0.55	233	0.058	2	1.87	0.012	0.05	0.1	0.02	4.3	<0.1	<0.05	5	<0.5
PAN-48885	Soil	17	9	1.50	145	0.229	<1	2.34	0.013	0.39	<0.1	<0.01	15.5	0.3	<0.05	11	<0.5
PAN-48887	Soil	8	32	0.44	233	0.050	<1	1.77	0.010	0.05	0.1	0.02	3.5	<0.1	<0.05	5	<0.5
PAN-48889	Soil	6	27	0.44	203	0.046	<1	1.62	0.009	0.08	<0.1	0.01	3.8	0.1	<0.05	6	<0.5
PAN-48896	Soil	7	33	0.46	259	0.051	<1	1.82	0.010	0.04	<0.1	0.01	2.7	<0.1	<0.05	5	<0.5
PAN-48897	Soil	5	22	0.69	444	0.107	1	1.74	0.017	0.11	<0.1	0.01	3.5	<0.1	<0.05	7	<0.5
PAN-48898	Soil	5	23	0.43	735	0.063	<1	1.50	0.013	0.08	0.1	<0.01	3.0	<0.1	<0.05	6	<0.5
PAN-48899	Soil	5	25	0.89	600	0.126	<1	1.79	0.018	0.37	0.1	<0.01	5.4	0.1	<0.05	6	<0.5
PAN-48900	Soil	8	16	1.41	303	0.165	<1	2.72	0.024	0.57	<0.1	<0.01	12.5	0.3	<0.05	10	<0.5
PAN-48901	Soil	5	17	0.59	412	0.088	<1	1.67	0.010	0.14	<0.1	<0.01	5.4	<0.1	<0.05	8	<0.5
PAN-48902	Soil	18	50	1.42	579	0.093	<1	2.35	0.012	0.19	<0.1	0.01	9.3	0.1	<0.05	10	<0.5
PAN-48903	Soil	9	13	0.79	381	0.103	<1	1.60	0.009	0.31	<0.1	<0.01	7.5	0.1	<0.05	7	<0.5
PAN-48904	Soil	9	31	0.59	385	0.099	<1	1.75	0.011	0.15	0.1	<0.01	5.3	<0.1	<0.05	6	<0.5
PAN-48906	Soil	8	32	0.53	232	0.112	<1	1.57	0.006	0.53	<0.1	<0.01	3.1	0.4	<0.05	6	<0.5
PAN-48907	Soil	18	47	0.80	367	0.181	<1	2.25	0.011	0.75	<0.1	0.02	3.8	0.5	<0.05	7	<0.5
PAN-48908	Soil	34	34	0.54	273	0.074	<1	1.63	0.010	0.23	<0.1	0.01	3.7	0.2	<0.05	5	<0.5
PAN-48910	Soil	40	69	0.92	394	0.172	<1	2.30	0.011	0.81	<0.1	<0.01	6.8	0.4	<0.05	11	0.9
PAN-48911	Soil	58	48	0.72	491	0.187	<1	1.90	0.008	0.80	<0.1	<0.01	4.6	0.5	<0.05	7	<0.5
PAN-48912	Soil	35	51	0.62	763	0.143	<1	1.70	0.008	0.47	0.2	0.01	5.4	0.3	<0.05	7	0.5
PAN-48914	Soil	22	39	0.51	432	0.128	<1	1.54	0.014	0.41	<0.1	0.01	4.7	0.3	<0.05	5	0.6
PAN-48915	Soil	5	16	0.81	282	0.108	<1	1.69	0.026	0.17	<0.1	<0.01	7.7	<0.1	<0.05	6	<0.5
PAN-48916	Soil	4	8	1.02	343	0.180	<1	1.56	0.025	0.35	<0.1	<0.01	6.7	0.1	<0.05	6	<0.5
PAN-48917	Soil	10	40	0.49	481	0.079	<1	1.91	0.014	0.04	<0.1	<0.01	3.4	<0.1	<0.05	5	<0.5
PAN-48918	Soil	10	41	0.55	398	0.095	1	1.73	0.018	0.05	0.1	0.02	4.7	<0.1	<0.05	5	<0.5
PAN-48919	Soil	8	27	0.40	844	0.052	<1	1.51	0.012	0.10	0.1	0.02	5.0	<0.1	<0.05	5	<0.5
PAN-48920	Soil	4	25	1.30	677	0.089	<1	1.99	0.021	0.04	<0.1	<0.01	7.8	<0.1	<0.05	7	<0.5
PAN-48921	Soil	3	15	1.17	698	0.186	<1	2.04	0.040	0.16	<0.1	<0.01	5.8	<0.1	<0.05	7	<0.5
PAN-48922	Soil	4	11	1.13	720	0.128	1	2.06	0.025	0.16	0.1	<0.01	8.7	<0.1	<0.05	10	<0.5
PAN-48923	Soil	7	28	0.47	905	0.070	<1	1.79	0.014	0.10	<0.1	<0.01	5.1	<0.1	<0.05	7	<0.5



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo ppm 0.1	Cu ppm 0.1	Pb ppm 0.1	Zn ppm 1	Ag ppm 0.1	Ni ppm 0.1	Co ppm 0.1	Mn ppm 1	Fe % 0.01	As ppm 0.5	U ppm 0.1	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001
PAN-48924	Soil	1.2	15.7	15.0	167	<0.1	13.8	13.9	984	4.86	4.4	0.7	<0.5	4.7	37	0.1	0.2	<0.1	89	0.43	0.023
PAN-48925	Soil	1.1	17.4	7.3	68	<0.1	13.1	8.9	546	3.36	25.0	0.4	1.6	2.5	18	0.1	0.7	0.1	53	0.17	0.027
PAN-48926	Soil	0.8	19.6	9.4	83	<0.1	13.9	8.5	603	3.06	6.2	0.4	1.0	2.4	39	0.1	0.4	<0.1	55	0.35	0.043
PAN-48927	Soil	0.6	15.6	3.8	157	<0.1	8.6	22.5	888	6.10	3.6	0.4	<0.5	1.7	35	0.1	0.3	<0.1	142	0.57	0.062
PAN-48928	Soil	0.8	28.3	21.7	82	<0.1	9.3	24.5	801	4.59	8.6	0.2	<0.5	0.9	71	0.1	0.3	0.1	106	0.50	0.075
PAN-48929	Soil	1.0	16.9	20.1	112	0.1	11.7	6.7	663	2.93	4.7	0.4	0.7	2.0	22	0.2	0.4	0.2	51	0.29	0.044
PAN-48930	Soil	1.5	19.5	15.8	134	<0.1	9.3	5.8	616	3.54	5.7	0.6	0.7	3.2	20	0.2	0.3	0.2	39	0.21	0.032
PAN-48931	Soil	1.1	26.0	10.8	68	<0.1	24.2	13.0	544	3.07	10.1	0.9	3.4	4.5	19	<0.1	0.6	0.2	70	0.18	0.039
PAN-48932	Soil	1.0	27.3	12.5	73	<0.1	24.9	10.9	397	3.29	10.1	0.9	1.7	4.8	16	0.1	0.6	0.2	73	0.16	0.026
PAN-48933	Soil	1.2	19.8	11.9	76	<0.1	13.0	9.4	758	3.50	7.6	0.7	1.2	3.3	12	<0.1	0.5	0.2	56	0.13	0.039
PAN-48934	Soil	0.8	18.2	13.3	57	<0.1	17.3	7.9	298	3.45	9.7	0.6	2.1	1.5	13	<0.1	0.5	0.2	69	0.15	0.030
PAN-48935	Soil	1.3	28.1	13.6	69	<0.1	22.3	10.2	450	3.19	10.1	1.3	2.2	4.8	16	<0.1	0.6	0.2	72	0.13	0.032
PAN-48936	Soil	0.8	22.4	10.1	55	<0.1	23.2	10.3	313	2.95	10.2	0.6	2.3	3.6	14	0.1	0.6	0.2	69	0.12	0.024
PAN-48937	Soil	1.0	28.0	10.4	59	<0.1	26.5	13.2	424	3.43	10.6	1.0	1.9	3.8	17	0.1	0.5	0.2	77	0.17	0.032
PAN-48938	Soil	1.0	31.5	9.8	61	<0.1	24.5	14.3	432	3.33	9.2	1.0	2.7	4.4	21	<0.1	0.5	0.2	94	0.21	0.026
PAN-48940	Soil	0.8	49.4	38.4	69	<0.1	20.8	17.5	341	3.82	9.5	0.6	1.0	4.4	18	<0.1	0.6	0.7	128	0.24	0.015
PAN-48941	Soil	1.1	25.2	10.3	64	<0.1	22.9	14.5	359	3.76	9.3	0.6	1.8	3.5	17	<0.1	0.6	0.2	114	0.18	0.018
PAN-48942	Soil	0.7	52.3	7.9	68	<0.1	23.6	15.2	395	3.67	7.3	0.8	2.5	4.2	19	<0.1	0.4	0.1	115	0.22	0.014
PAN-48944	Soil	1.1	22.6	10.1	81	<0.1	17.8	11.5	739	3.79	9.6	0.6	1.4	3.0	15	0.2	0.5	0.2	66	0.17	0.048
PAN-48946	Soil	0.8	30.6	8.8	73	<0.1	20.3	9.8	508	3.23	6.9	1.0	2.6	3.8	31	0.1	0.5	0.2	61	0.39	0.042
PAN-48950	Soil	0.8	41.5	11.3	71	<0.1	27.5	12.2	536	3.33	10.4	1.3	2.6	4.4	33	0.1	0.6	0.2	77	0.36	0.037
PAN-48951	Soil	0.7	32.7	9.8	59	<0.1	24.7	11.4	340	3.16	9.2	1.0	1.9	4.2	25	0.1	0.6	0.2	78	0.31	0.019
PAN-48952	Soil	0.7	27.1	11.1	59	<0.1	24.8	10.1	418	3.02	9.1	0.9	6.0	4.1	29	<0.1	0.5	0.2	73	0.37	0.031
PAN-48953	Soil	0.9	25.6	10.5	57	<0.1	22.2	9.7	387	2.93	8.3	0.8	3.8	3.8	28	<0.1	0.5	0.2	67	0.36	0.028
PAN-48956	Soil	0.7	41.1	16.3	73	<0.1	29.0	12.2	424	3.27	9.8	0.6	3.7	3.9	30	0.1	0.5	0.2	77	0.33	0.027
PAN-48957	Soil	0.7	42.1	17.4	74	<0.1	28.3	12.8	430	3.25	9.7	0.6	6.0	3.9	30	<0.1	0.6	0.2	79	0.33	0.023
PAN-48958	Soil	1.0	22.4	18.0	101	<0.1	21.8	10.5	372	3.18	10.0	0.8	1.2	4.0	19	0.3	0.5	0.2	62	0.18	0.025
PAN-48959	Soil	1.1	23.5	11.0	53	<0.1	25.4	10.4	297	2.92	10.3	0.8	0.8	3.7	21	<0.1	0.6	0.2	72	0.19	0.012
PAN-48960	Soil	1.2	22.2	12.4	57	<0.1	21.7	11.0	295	3.10	10.5	0.8	1.6	3.5	16	0.1	0.7	0.2	72	0.14	0.028
PAN-48962	Soil	1.4	35.8	12.1	92	<0.1	24.5	9.0	234	3.34	6.1	1.3	0.8	7.7	18	<0.1	0.2	0.2	69	0.24	0.051



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
PAN-48924	Soil	11	42	2.00	493	0.117	<1	2.85	0.010	0.55	<0.1	0.02	11.2	0.2	<0.05	16	<0.5
PAN-48925	Soil	11	24	0.63	538	0.084	1	1.78	0.010	0.16	<0.1	0.01	6.6	0.1	<0.05	7	<0.5
PAN-48926	Soil	6	24	0.39	588	0.070	<1	1.63	0.011	0.10	<0.1	0.01	4.2	<0.1	<0.05	6	<0.5
PAN-48927	Soil	5	10	1.27	636	0.211	1	2.44	0.025	0.17	<0.1	<0.01	9.7	<0.1	<0.05	11	<0.5
PAN-48928	Soil	3	12	0.55	244	0.129	<1	1.78	0.032	0.11	<0.1	0.01	7.5	<0.1	<0.05	7	<0.5
PAN-48929	Soil	7	21	0.34	362	0.048	<1	1.65	0.013	0.06	<0.1	<0.01	4.2	<0.1	<0.05	7	<0.5
PAN-48930	Soil	6	16	0.37	326	0.023	<1	1.53	0.009	0.10	<0.1	<0.01	5.9	<0.1	<0.05	8	<0.5
PAN-48931	Soil	13	38	0.57	218	0.063	1	2.42	0.015	0.05	0.1	0.05	4.9	<0.1	<0.05	6	<0.5
PAN-48932	Soil	18	38	0.59	176	0.085	<1	2.44	0.012	0.05	0.1	0.04	6.0	0.1	<0.05	7	<0.5
PAN-48933	Soil	8	25	0.50	171	0.090	1	2.07	0.011	0.18	0.2	0.02	7.1	0.1	<0.05	8	0.6
PAN-48934	Soil	9	31	0.48	148	0.067	<1	1.98	0.011	0.05	0.1	0.02	3.8	0.1	<0.05	8	<0.5
PAN-48935	Soil	18	38	0.57	170	0.081	1	2.36	0.016	0.05	0.2	0.03	6.0	0.1	<0.05	7	<0.5
PAN-48936	Soil	11	34	0.54	145	0.078	1	2.35	0.012	0.04	0.1	0.04	3.9	<0.1	<0.05	6	0.5
PAN-48937	Soil	13	42	0.60	217	0.086	1	2.59	0.015	0.05	0.1	0.03	5.6	<0.1	<0.05	6	0.8
PAN-48938	Soil	14	39	0.64	239	0.092	2	2.47	0.020	0.04	0.1	0.03	6.9	<0.1	<0.05	7	0.7
PAN-48940	Soil	10	31	0.88	236	0.149	<1	2.99	0.028	0.15	<0.1	0.02	4.7	0.2	<0.05	7	<0.5
PAN-48941	Soil	9	36	0.69	221	0.114	1	2.71	0.022	0.10	0.1	0.02	4.3	0.1	<0.05	7	<0.5
PAN-48942	Soil	15	44	0.85	180	0.135	1	2.54	0.022	0.06	0.1	0.02	6.2	<0.1	<0.05	7	0.5
PAN-48944	Soil	8	30	0.60	186	0.082	<1	2.29	0.010	0.19	0.1	0.03	5.1	<0.1	<0.05	8	<0.5
PAN-48946	Soil	16	32	0.51	325	0.068	1	1.65	0.017	0.09	0.1	0.03	7.3	<0.1	<0.05	6	0.5
PAN-48950	Soil	19	44	0.61	350	0.102	<1	2.11	0.020	0.06	0.1	0.04	7.6	<0.1	<0.05	6	0.5
PAN-48951	Soil	19	41	0.63	257	0.085	<1	2.38	0.022	0.05	0.1	0.03	8.3	0.1	<0.05	6	0.6
PAN-48952	Soil	16	38	0.58	313	0.088	1	1.96	0.016	0.05	0.1	0.03	7.0	0.1	<0.05	6	<0.5
PAN-48953	Soil	15	36	0.54	285	0.086	1	1.83	0.021	0.04	0.1	0.03	6.5	<0.1	<0.05	6	0.7
PAN-48956	Soil	18	46	0.64	278	0.101	<1	2.28	0.020	0.06	0.1	0.05	7.5	<0.1	<0.05	6	0.5
PAN-48957	Soil	17	45	0.62	282	0.105	1	2.20	0.018	0.05	0.1	0.05	7.5	<0.1	<0.05	6	0.6
PAN-48958	Soil	12	34	0.48	239	0.078	1	2.07	0.015	0.06	0.1	0.02	6.2	0.1	<0.05	7	<0.5
PAN-48959	Soil	14	42	0.53	250	0.081	1	2.10	0.019	0.04	0.2	0.02	5.4	0.1	<0.05	6	<0.5
PAN-48960	Soil	11	37	0.48	210	0.074	1	2.50	0.013	0.04	0.1	0.03	3.5	0.1	<0.05	6	0.6
PAN-48962	Soil	21	32	0.59	251	0.131	<1	1.90	0.013	0.38	<0.1	0.02	4.2	0.3	<0.05	6	0.8



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 1	% 0.01	ppm 0.5	ppm 0.1	ppb 0.5	ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 0.1	ppm 2	% 0.01	% 0.001
PAN-48964	Soil	0.4	21.5	9.0	394	<0.1	6.0	10.9	582	3.96	3.5	0.5	0.6	1.4	18	0.8	0.3	<0.1	53	0.21	0.022
PAN-48965	Soil	0.5	25.1	7.1	155	<0.1	8.5	10.3	483	3.97	5.6	0.6	0.9	1.9	23	0.4	0.6	<0.1	50	0.25	0.027
PAN-48966	Soil	1.0	19.1	7.0	73	<0.1	9.4	7.4	376	3.60	5.9	0.5	6.5	1.7	15	0.2	0.5	0.2	62	0.15	0.030
PAN-48967	Soil	0.7	30.5	8.3	101	<0.1	16.4	9.4	476	3.55	6.9	0.6	0.8	2.2	16	<0.1	0.4	0.1	47	0.19	0.031
PAN-48969	Soil	0.7	22.9	6.9	94	<0.1	14.1	8.0	363	2.98	6.4	0.5	1.0	2.9	12	<0.1	0.4	0.1	42	0.11	0.018
PAN-48971	Soil	0.8	31.8	7.6	147	<0.1	15.3	8.4	377	3.71	8.2	0.4	1.0	2.0	14	<0.1	0.4	0.1	48	0.14	0.022
PAN-48972	Soil	0.9	21.7	8.9	100	<0.1	16.0	10.1	543	3.34	8.8	0.5	0.9	2.7	11	0.1	0.6	0.2	61	0.12	0.025
PAN-48973	Soil	0.6	32.4	6.1	106	<0.1	11.8	7.4	347	3.32	8.4	0.5	1.1	2.3	13	<0.1	0.4	0.1	32	0.14	0.014
PAN-48974	Soil	0.9	24.8	15.4	108	<0.1	11.2	8.3	559	3.86	8.0	0.6	0.6	2.6	13	0.1	0.5	0.2	41	0.16	0.034
PAN-48975	Soil	0.9	50.3	27.9	138	<0.1	11.0	7.7	421	4.12	14.5	0.6	0.8	3.7	13	<0.1	0.4	0.6	35	0.12	0.020
PAN-48976	Soil	0.9	48.5	24.7	141	<0.1	16.5	10.6	458	3.74	8.1	0.4	1.2	1.8	20	0.1	0.5	0.5	64	0.18	0.024
PAN-48977	Soil	1.1	14.1	8.3	60	<0.1	12.7	7.2	344	3.10	7.1	0.3	2.5	1.6	15	<0.1	0.4	0.2	60	0.15	0.024
PAN-48978	Soil	0.8	40.6	7.5	75	<0.1	19.1	19.2	491	4.37	8.2	0.3	1.3	1.7	16	<0.1	0.4	0.1	130	0.25	0.021
PAN-48979	Soil	0.8	29.5	8.7	96	<0.1	19.3	11.3	605	3.71	9.4	0.5	1.2	2.5	14	0.2	0.5	0.2	65	0.14	0.030
PAN-48980	Soil	0.8	29.8	7.1	65	<0.1	25.7	13.9	448	3.53	9.5	0.5	2.9	3.1	24	<0.1	0.5	0.1	83	0.30	0.016
PAN-48981	Soil	0.7	35.5	6.9	68	<0.1	27.1	14.8	484	3.62	10.6	0.4	<0.5	2.7	32	0.1	0.6	0.1	91	0.42	0.021
PAN-48982	Soil	1.2	16.3	10.2	76	<0.1	18.2	8.9	346	3.28	9.6	0.4	<0.5	2.3	17	0.2	0.6	0.2	69	0.16	0.034
PAN-48985	Soil	1.5	21.8	6.8	128	<0.1	11.0	8.6	429	4.08	6.6	0.4	<0.5	2.2	23	0.4	0.4	0.1	40	0.37	0.050
PAN-48988	Soil	0.7	40.1	7.4	79	0.1	20.2	17.7	380	3.73	6.2	0.3	<0.5	1.7	24	<0.1	0.5	0.1	104	0.36	0.021
PAN-48989	Soil	0.9	12.9	10.2	54	<0.1	14.9	9.3	575	3.36	6.5	0.4	0.7	2.2	22	0.2	0.5	0.2	62	0.36	0.027
PAN-48991	Soil	0.7	34.9	17.1	46	<0.1	20.2	15.3	399	3.36	8.4	0.3	1.0	1.8	37	<0.1	0.6	0.2	94	0.56	0.020
PAN-48856	Soil	0.9	9.9	5.7	34	<0.1	11.4	5.7	194	1.70	5.9	0.3	1.6	1.8	10	<0.1	0.4	<0.1	44	0.08	0.016
PAN-49607	Soil	0.5	16.8	7.0	68	<0.1	11.2	6.5	271	2.51	4.3	0.5	7.9	3.5	33	0.1	0.2	0.1	47	0.36	0.052
PAN-49608	Soil	0.5	19.9	8.1	56	<0.1	15.1	8.1	289	2.38	5.6	1.0	3.4	3.3	35	0.1	0.3	0.1	52	0.41	0.049
PAN-49751	Soil	0.6	43.8	4.6	146	<0.1	14.1	19.5	756	4.12	3.9	0.7	1.2	2.5	12	0.2	0.3	<0.1	111	0.28	0.060
PAN-49752	Soil	1.3	18.4	8.1	64	<0.1	12.6	12.3	490	3.81	9.4	0.4	1.0	1.9	12	<0.1	0.5	0.2	107	0.17	0.026
PAN-49753	Soil	0.4	40.7	5.1	70	<0.1	17.6	15.3	569	3.75	5.8	0.6	1.1	2.5	24	<0.1	0.4	<0.1	100	0.29	0.034
PAN-49754	Soil	0.3	36.3	3.3	72	<0.1	12.9	20.7	521	4.79	3.5	0.6	0.5	3.9	13	0.1	0.2	<0.1	130	0.21	0.041
PAN-49755	Soil	0.8	24.5	9.2	60	<0.1	20.5	11.7	357	3.16	9.3	0.8	3.0	3.2	21	<0.1	0.4	0.1	85	0.22	0.041
PAN-49756	Soil	0.6	120.8	27.8	200	<0.1	9.9	15.7	400	5.26	1.6	0.9	1.4	1.9	25	0.6	0.1	<0.1	164	0.19	0.040



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
PAN-48964	Soil	5	9	0.86	335	0.210	<1	2.17	0.010	0.60	<0.1	0.02	4.2	0.2	<0.05	8	<0.5
PAN-48965	Soil	7	14	0.65	381	0.115	<1	2.02	0.011	0.30	<0.1	0.03	3.9	<0.1	<0.05	8	0.5
PAN-48966	Soil	6	16	0.46	215	0.063	1	1.53	0.011	0.11	<0.1	0.02	4.1	<0.1	<0.05	7	<0.5
PAN-48967	Soil	8	24	0.59	345	0.139	<1	2.06	0.014	0.27	<0.1	0.02	4.2	0.1	<0.05	7	<0.5
PAN-48969	Soil	7	23	0.49	199	0.124	<1	1.98	0.009	0.23	<0.1	<0.01	5.0	0.1	<0.05	6	<0.5
PAN-48971	Soil	5	23	0.54	200	0.129	<1	2.22	0.013	0.11	<0.1	0.01	4.0	0.2	<0.05	7	<0.5
PAN-48972	Soil	8	29	0.51	237	0.106	<1	2.06	0.010	0.10	<0.1	0.02	4.9	0.1	<0.05	7	0.6
PAN-48973	Soil	6	19	0.50	223	0.129	<1	1.76	0.009	0.25	<0.1	<0.01	5.9	0.1	<0.05	7	0.5
PAN-48974	Soil	5	20	0.48	189	0.086	<1	1.89	0.009	0.20	<0.1	<0.01	7.2	<0.1	<0.05	8	0.6
PAN-48975	Soil	5	21	0.54	169	0.142	1	2.39	0.008	0.30	<0.1	<0.01	6.2	0.2	<0.05	8	0.6
PAN-48976	Soil	5	25	0.63	189	0.145	<1	2.23	0.010	0.22	<0.1	<0.01	3.1	0.1	<0.05	7	<0.5
PAN-48977	Soil	6	23	0.44	206	0.074	1	1.94	0.010	0.09	0.1	0.01	2.4	<0.1	<0.05	7	<0.5
PAN-48978	Soil	4	28	0.97	272	0.184	1	2.75	0.022	0.42	0.1	0.01	3.7	0.1	<0.05	8	<0.5
PAN-48979	Soil	8	33	0.58	251	0.081	1	2.40	0.013	0.12	<0.1	0.02	4.5	<0.1	<0.05	7	<0.5
PAN-48980	Soil	8	48	0.86	169	0.087	<1	2.38	0.016	0.04	<0.1	0.02	6.3	<0.1	<0.05	6	<0.5
PAN-48981	Soil	7	40	0.83	199	0.092	<1	2.74	0.036	0.05	0.1	0.01	5.6	<0.1	<0.05	7	<0.5
PAN-48982	Soil	8	35	0.44	205	0.070	<1	2.13	0.012	0.06	<0.1	0.01	3.1	<0.1	<0.05	6	<0.5
PAN-48985	Soil	4	18	0.39	227	0.071	1	2.14	0.018	0.14	<0.1	0.01	5.9	<0.1	<0.05	8	<0.5
PAN-48988	Soil	6	49	0.90	175	0.147	1	2.27	0.021	0.07	<0.1	<0.01	4.6	<0.1	<0.05	7	<0.5
PAN-48989	Soil	7	29	0.36	262	0.041	<1	1.61	0.009	0.10	0.1	0.01	4.2	<0.1	<0.05	5	<0.5
PAN-48991	Soil	5	31	0.60	166	0.099	<1	2.04	0.041	0.05	0.1	<0.01	5.0	<0.1	<0.05	6	<0.5
PAN-48856	Soil	4	21	0.27	120	0.018	<1	1.76	0.005	0.04	<0.1	0.01	1.7	<0.1	<0.05	4	<0.5
PAN-49607	Soil	9	23	0.48	150	0.084	4	1.28	0.015	0.09	0.2	0.02	3.9	<0.1	<0.05	5	<0.5
PAN-49608	Soil	14	28	0.49	195	0.076	<1	1.60	0.022	0.04	0.1	0.02	4.1	<0.1	<0.05	5	<0.5
PAN-49751	Soil	7	22	1.21	441	0.200	<1	2.98	0.019	0.54	<0.1	0.02	5.6	0.2	<0.05	8	<0.5
PAN-49752	Soil	6	27	0.83	169	0.167	1	2.12	0.013	0.15	<0.1	0.02	3.7	<0.1	<0.05	9	<0.5
PAN-49753	Soil	10	25	1.21	407	0.204	<1	2.52	0.015	0.34	0.1	<0.01	4.7	0.2	<0.05	7	<0.5
PAN-49754	Soil	9	22	1.76	491	0.294	<1	3.46	0.018	1.10	<0.1	0.01	6.7	0.3	<0.05	10	<0.5
PAN-49755	Soil	11	35	0.95	419	0.099	2	2.26	0.015	0.17	0.1	0.03	6.7	0.2	<0.05	6	0.8
PAN-49756	Soil	9	23	1.98	1152	0.170	<1	3.86	0.035	1.02	<0.1	<0.01	17.2	0.3	0.08	9	0.7



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo ppm 0.1	Cu ppm 0.1	Pb ppm 0.1	Zn ppm 1	Ag ppm 0.1	Ni ppm 0.1	Co ppm 0.1	Mn ppm 1	Fe % 0.01	As ppm 0.5	U ppm 0.1	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001
PAN-49757	Soil	3.5	145.0	6.4	169	<0.1	13.0	13.3	674	5.89	<0.5	1.6	2.6	4.0	23	<0.1	<0.1	<0.1	205	0.30	0.050
PAN-49760	Soil	0.3	47.8	3.4	94	<0.1	12.1	26.0	1044	6.86	2.7	0.8	<0.5	3.9	20	<0.1	0.2	<0.1	216	0.32	0.088
PAN-49761	Soil	0.8	20.0	7.4	69	<0.1	17.4	13.8	476	3.57	7.7	0.4	1.4	2.0	17	<0.1	0.4	0.1	100	0.20	0.045
PAN-49763	Soil	<0.1	32.9	2.2	79	<0.1	6.6	15.8	945	4.40	1.1	1.0	0.5	5.6	23	<0.1	0.2	<0.1	123	0.43	0.091
PAN-49764	Soil	<0.1	62.6	2.4	81	<0.1	8.5	20.6	892	5.35	1.2	0.9	<0.5	4.8	15	<0.1	0.1	<0.1	184	0.47	0.115
PAN-49765	Soil	0.7	31.2	8.1	50	<0.1	18.7	12.6	364	3.51	7.7	1.0	2.8	3.7	23	<0.1	0.4	0.2	89	0.26	0.039
PAN-49766	Soil	1.0	23.1	14.7	107	<0.1	19.6	12.3	358	3.39	10.0	0.8	5.4	3.5	21	0.2	0.5	0.2	92	0.21	0.028
PAN-49767	Soil	2.7	59.9	32.1	501	<0.1	10.2	13.1	1042	5.40	5.1	1.2	1.3	3.7	19	1.1	0.3	0.1	142	0.18	0.031
PAN-49768	Soil	0.4	38.0	8.7	166	<0.1	16.5	19.5	555	4.91	3.3	0.9	<0.5	2.2	36	0.1	0.2	<0.1	129	0.40	0.047
PAN-49769	Soil	0.5	35.9	6.0	88	<0.1	15.8	16.9	573	4.04	5.7	0.5	2.1	2.1	35	<0.1	0.3	<0.1	109	0.31	0.037
PAN-49770	Soil	0.3	57.5	5.5	107	<0.1	15.0	15.7	461	3.53	3.6	0.7	1.4	2.1	43	<0.1	0.2	<0.1	97	0.65	0.088
PAN-49771	Soil	0.4	86.9	4.5	93	<0.1	15.3	18.8	651	3.87	4.6	0.3	4.0	1.3	36	<0.1	0.2	<0.1	93	0.58	0.099
PAN-49772	Soil	0.9	122.2	4.2	77	<0.1	9.3	9.4	291	7.92	3.7	1.7	1.2	6.3	110	<0.1	0.2	0.2	171	0.19	0.085
PAN-49773	Soil	0.2	115.1	3.3	146	<0.1	12.5	16.5	902	5.55	<0.5	1.0	2.7	3.7	38	<0.1	<0.1	<0.1	201	0.45	0.103
PAN-49774	Soil	<0.1	13.9	4.5	119	<0.1	7.4	7.0	801	3.40	<0.5	0.6	0.8	3.3	22	<0.1	0.1	<0.1	38	0.35	0.078
PAN-49775	Soil	0.4	27.0	3.5	76	<0.1	10.6	16.3	569	4.58	3.9	0.6	2.1	2.3	19	<0.1	0.3	<0.1	110	0.35	0.063
PAN-49776	Soil	0.8	40.8	9.0	225	<0.1	22.2	15.8	517	3.50	6.4	0.6	2.5	4.3	19	0.6	0.4	0.2	92	0.27	0.032
PAN-49777	Soil	0.7	45.6	6.3	138	<0.1	13.8	12.1	467	3.80	7.8	0.6	0.7	2.2	26	0.3	0.4	0.1	73	0.19	0.023
PAN-49778	Soil	0.6	24.5	8.2	156	<0.1	17.0	10.2	594	3.99	6.4	0.6	<0.5	2.5	17	0.3	0.3	0.1	57	0.15	0.032
PAN-49779	Soil	0.9	27.2	9.5	62	<0.1	22.1	10.1	339	3.39	11.2	0.8	1.5	4.5	20	<0.1	0.6	0.2	75	0.17	0.021
PAN-49780	Soil	1.2	46.2	7.9	123	<0.1	24.3	12.8	446	4.24	5.2	1.4	<0.5	9.7	22	0.1	0.1	0.2	67	0.33	0.067
PAN-49781	Soil	2.2	44.6	11.8	113	<0.1	29.1	10.8	354	4.32	10.3	1.3	<0.5	8.2	16	<0.1	0.5	0.2	71	0.17	0.028



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
PAN-49757	Soil	11	66	2.94	987	0.231	<1	3.80	0.025	1.13	<0.1	<0.01	20.6	0.3	0.08	12	1.1
PAN-49760	Soil	11	23	3.26	460	0.249	<1	3.91	0.020	0.49	<0.1	0.01	16.7	0.1	<0.05	14	<0.5
PAN-49761	Soil	6	40	1.16	334	0.137	<1	2.71	0.018	0.13	<0.1	0.02	5.2	0.1	<0.05	9	0.6
PAN-49763	Soil	11	14	1.89	832	0.248	<1	2.89	0.015	1.13	<0.1	<0.01	15.7	0.2	<0.05	10	<0.5
PAN-49764	Soil	13	21	2.94	792	0.259	<1	3.10	0.020	1.06	<0.1	<0.01	17.1	0.2	<0.05	12	<0.5
PAN-49765	Soil	15	36	0.98	360	0.141	1	2.58	0.019	0.19	0.1	0.03	6.0	0.1	<0.05	8	<0.5
PAN-49766	Soil	12	38	0.83	289	0.131	2	2.58	0.013	0.13	0.1	0.03	4.8	0.1	<0.05	7	<0.5
PAN-49767	Soil	14	22	1.39	515	0.222	<1	3.09	0.012	0.93	<0.1	0.02	7.7	0.3	<0.05	11	0.8
PAN-49768	Soil	6	44	1.44	357	0.220	<1	3.09	0.025	0.24	<0.1	<0.01	6.5	<0.1	<0.05	11	<0.5
PAN-49769	Soil	9	28	1.34	500	0.190	<1	3.03	0.017	0.37	<0.1	0.02	4.3	0.2	<0.05	8	<0.5
PAN-49770	Soil	9	52	1.14	254	0.177	<1	2.37	0.046	0.09	<0.1	<0.01	6.4	<0.1	<0.05	8	<0.5
PAN-49771	Soil	5	46	1.39	359	0.201	<1	2.81	0.036	0.48	0.1	<0.01	4.1	0.2	<0.05	7	<0.5
PAN-49772	Soil	15	29	1.20	703	0.167	<1	2.83	0.015	0.57	<0.1	<0.01	11.8	0.3	0.14	11	3.6
PAN-49773	Soil	13	28	2.23	2543	0.238	<1	3.54	0.021	1.69	<0.1	<0.01	16.7	0.4	<0.05	11	<0.5
PAN-49774	Soil	15	6	1.37	758	0.121	<1	2.40	0.014	0.85	<0.1	0.01	7.4	0.2	<0.05	9	<0.5
PAN-49775	Soil	11	18	1.28	312	0.095	1	2.53	0.021	0.10	<0.1	0.02	12.0	<0.1	<0.05	9	<0.5
PAN-49776	Soil	10	34	1.02	271	0.129	<1	2.93	0.021	0.16	0.2	0.01	4.4	0.1	<0.05	7	<0.5
PAN-49777	Soil	9	22	0.96	268	0.209	3	2.53	0.017	0.29	0.1	0.02	3.9	0.1	<0.05	7	<0.5
PAN-49778	Soil	5	32	0.71	234	0.142	<1	2.21	0.028	0.34	<0.1	0.02	4.6	0.2	<0.05	8	<0.5
PAN-49779	Soil	15	38	0.65	292	0.110	2	2.35	0.019	0.12	0.2	0.02	5.1	0.1	<0.05	7	<0.5
PAN-49780	Soil	47	26	1.06	414	0.209	1	2.52	0.016	0.76	<0.1	<0.01	5.6	0.5	<0.05	7	0.7
PAN-49781	Soil	23	32	0.56	261	0.099	2	1.84	0.013	0.33	<0.1	0.01	4.9	0.3	<0.05	7	0.7



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QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
PAN-48343	Soil	1.0	12.0	9.0	77	<0.1	13.9	8.1	577	2.72	6.1	0.4	<0.5	1.7	23	0.2	0.4	0.2	63	0.29	0.035
REP PAN-48343	QC	1.0	11.9	9.3	76	<0.1	13.6	8.3	628	2.82	6.1	0.4	1.6	1.7	23	0.2	0.4	0.2	62	0.29	0.033
PAN-48370	Soil	0.9	16.7	11.0	63	<0.1	20.3	9.6	625	2.87	8.2	0.3	2.5	2.3	17	0.1	0.5	0.2	76	0.19	0.020
REP PAN-48370	QC	1.0	17.8	11.0	63	<0.1	18.7	10.0	643	2.91	8.0	0.4	2.0	2.2	18	0.1	0.5	0.2	75	0.20	0.021
PAN-48725	Soil	0.7	18.4	9.3	72	<0.1	25.6	12.6	458	3.38	6.6	0.6	<0.5	8.5	18	<0.1	0.3	0.1	56	0.22	0.029
REP PAN-48725	QC	0.7	19.1	9.3	74	<0.1	27.1	12.4	451	3.40	6.5	0.6	1.4	8.4	18	<0.1	0.3	<0.1	58	0.20	0.030
PAN-48751	Soil	0.6	23.8	9.1	59	<0.1	19.0	8.3	390	2.46	5.9	0.9	<0.5	4.4	25	0.1	0.3	0.1	54	0.32	0.058
REP PAN-48751	QC	0.5	23.6	9.4	60	<0.1	18.7	8.1	389	2.44	5.7	0.9	1.8	4.3	24	0.1	0.3	0.1	54	0.31	0.054
PAN-48799	Soil	0.5	54.1	3.6	169	<0.1	12.6	29.4	954	6.02	1.3	0.5	0.7	2.7	30	<0.1	<0.1	<0.1	214	0.34	0.026
REP PAN-48799	QC	0.5	53.7	3.5	168	<0.1	12.3	28.3	904	5.92	1.3	0.5	<0.5	2.7	30	<0.1	<0.1	<0.1	209	0.34	0.027
PAN-48874	Soil	1.0	20.0	9.6	70	<0.1	26.6	11.8	343	3.07	11.0	0.5	2.9	3.0	15	0.2	0.6	0.2	74	0.13	0.027
REP PAN-48874	QC	1.2	20.5	9.8	71	<0.1	25.3	11.9	354	3.10	11.0	0.6	1.8	3.1	16	0.2	0.6	0.2	75	0.13	0.026
PAN-48882	Soil	1.0	9.6	6.4	39	<0.1	11.8	6.1	371	2.17	6.6	0.3	0.7	2.2	12	0.2	0.4	0.1	64	0.13	0.013
REP PAN-48882	QC	1.0	9.4	6.2	38	<0.1	11.4	5.9	372	2.10	6.4	0.3	<0.5	2.2	12	0.1	0.4	0.1	64	0.12	0.013
PAN-48927	Soil	0.6	15.6	3.8	157	<0.1	8.6	22.5	888	6.10	3.6	0.4	<0.5	1.7	35	0.1	0.3	<0.1	142	0.57	0.062
REP PAN-48927	QC	0.6	15.3	3.7	153	<0.1	8.2	22.5	887	5.98	3.5	0.4	<0.5	1.8	35	<0.1	0.3	<0.1	142	0.58	0.063
PAN-48951	Soil	0.7	32.7	9.8	59	<0.1	24.7	11.4	340	3.16	9.2	1.0	1.9	4.2	25	0.1	0.6	0.2	78	0.31	0.019
REP PAN-48951	QC	0.7	34.7	9.7	62	<0.1	26.7	11.8	352	3.23	9.6	0.9	3.7	4.1	24	0.1	0.5	0.2	83	0.31	0.018
PAN-48967	Soil	0.7	30.5	8.3	101	<0.1	16.4	9.4	476	3.55	6.9	0.6	0.8	2.2	16	<0.1	0.4	0.1	47	0.19	0.031
REP PAN-48967	QC	0.6	29.5	7.9	99	<0.1	16.2	9.2	460	3.47	7.2	0.5	0.8	2.1	17	<0.1	0.4	0.1	47	0.20	0.030
PAN-48856	Soil	0.9	9.9	5.7	34	<0.1	11.4	5.7	194	1.70	5.9	0.3	1.6	1.8	10	<0.1	0.4	<0.1	44	0.08	0.016
REP PAN-48856	QC	0.8	9.9	5.5	37	<0.1	11.5	6.2	193	1.76	6.2	0.3	<0.5	1.8	10	<0.1	0.3	0.1	42	0.08	0.015
PAN-49773	Soil	0.2	115.1	3.3	146	<0.1	12.5	16.5	902	5.55	<0.5	1.0	2.7	3.7	38	<0.1	<0.1	<0.1	201	0.45	0.103
REP PAN-49773	QC	0.2	123.9	3.6	150	<0.1	13.7	17.6	1001	6.16	0.6	1.1	1.2	3.8	37	<0.1	<0.1	<0.1	215	0.46	0.108
PAN-49779	Soil	0.9	27.2	9.5	62	<0.1	22.1	10.1	339	3.39	11.2	0.8	1.5	4.5	20	<0.1	0.6	0.2	75	0.17	0.021
REP PAN-49779	QC	0.9	27.3	9.1	59	<0.1	23.4	10.5	329	3.50	11.6	0.7	5.7	4.6	19	0.1	0.6	0.2	78	0.18	0.021
Reference Materials																					
STD DS7	Standard	20.5	113.4	72.7	402	0.8	55.8	9.8	645	2.37	49.6	5.1	103.1	4.8	80	6.6	6.2	4.9	84	1.00	0.077



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
Pulp Duplicates																	
PAN-48343	Soil	6	24	0.39	263	0.049	<1	1.47	0.011	0.11	0.1	<0.01	2.4	<0.1	<0.05	6	<0.5
REP PAN-48343	QC	6	24	0.39	273	0.041	<1	1.49	0.014	0.11	0.1	<0.01	2.3	<0.1	<0.05	5	<0.5
PAN-48370	Soil	7	32	0.44	293	0.068	<1	1.93	0.013	0.04	0.1	0.02	2.9	<0.1	<0.05	6	<0.5
REP PAN-48370	QC	8	33	0.44	306	0.073	1	2.16	0.014	0.04	0.2	0.02	2.7	<0.1	<0.05	6	<0.5
PAN-48725	Soil	13	40	0.75	273	0.168	<1	2.19	0.011	0.37	<0.1	0.02	3.5	0.3	<0.05	7	<0.5
REP PAN-48725	QC	13	39	0.76	274	0.166	<1	2.06	0.010	0.39	<0.1	0.02	3.6	0.3	<0.05	6	<0.5
PAN-48751	Soil	23	27	0.51	189	0.090	2	1.46	0.016	0.05	0.2	0.02	4.5	<0.1	<0.05	4	<0.5
REP PAN-48751	QC	23	29	0.48	188	0.087	1	1.37	0.017	0.06	0.1	0.02	4.6	<0.1	<0.05	4	<0.5
PAN-48799	Soil	9	16	2.16	278	0.251	<1	2.52	0.025	1.59	<0.1	<0.01	9.6	0.8	<0.05	10	<0.5
REP PAN-48799	QC	10	16	2.20	278	0.251	<1	2.63	0.024	1.62	<0.1	<0.01	9.6	0.8	<0.05	10	<0.5
PAN-48874	Soil	9	37	0.51	228	0.074	1	2.43	0.015	0.05	0.1	0.03	3.4	<0.1	<0.05	6	<0.5
REP PAN-48874	QC	9	37	0.53	227	0.073	2	2.50	0.012	0.04	0.1	0.03	3.4	0.1	<0.05	6	<0.5
PAN-48882	Soil	5	21	0.31	163	0.018	2	1.49	0.007	0.04	0.1	0.01	1.9	<0.1	<0.05	5	<0.5
REP PAN-48882	QC	4	21	0.30	159	0.016	<1	1.45	0.006	0.04	0.1	0.01	1.8	<0.1	<0.05	5	<0.5
PAN-48927	Soil	5	10	1.27	636	0.211	1	2.44	0.025	0.17	<0.1	<0.01	9.7	<0.1	<0.05	11	<0.5
REP PAN-48927	QC	5	10	1.27	623	0.218	<1	2.39	0.025	0.18	<0.1	<0.01	9.7	<0.1	<0.05	11	<0.5
PAN-48951	Soil	19	41	0.63	257	0.085	<1	2.38	0.022	0.05	0.1	0.03	8.3	0.1	<0.05	6	0.6
REP PAN-48951	QC	19	43	0.62	260	0.083	1	2.40	0.021	0.04	0.1	0.03	8.1	<0.1	<0.05	6	0.9
PAN-48967	Soil	8	24	0.59	345	0.139	<1	2.06	0.014	0.27	<0.1	0.02	4.2	0.1	<0.05	7	<0.5
REP PAN-48967	QC	8	23	0.56	339	0.141	<1	1.93	0.013	0.28	<0.1	0.01	4.2	0.1	<0.05	7	<0.5
PAN-48856	Soil	4	21	0.27	120	0.018	<1	1.76	0.005	0.04	<0.1	0.01	1.7	<0.1	<0.05	4	<0.5
REP PAN-48856	QC	5	21	0.27	114	0.020	<1	1.78	0.006	0.03	<0.1	0.01	1.6	<0.1	<0.05	4	<0.5
PAN-49773	Soil	13	28	2.23	2543	0.238	<1	3.54	0.021	1.69	<0.1	<0.01	16.7	0.4	<0.05	11	<0.5
REP PAN-49773	QC	14	29	2.38	2611	0.250	<1	3.85	0.027	1.75	<0.1	<0.01	17.2	0.5	<0.05	12	0.6
PAN-49779	Soil	15	38	0.65	292	0.110	2	2.35	0.019	0.12	0.2	0.02	5.1	0.1	<0.05	7	<0.5
REP PAN-49779	QC	15	39	0.63	292	0.127	2	2.25	0.022	0.12	0.1	0.02	5.2	0.1	<0.05	7	0.5
Reference Materials																	
STD DS7	Standard	15	208	1.02	421	0.126	36	1.08	0.102	0.44	4.0	0.19	2.7	4.2	0.20	5	2.6



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		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
STD DS7	Standard	19.8	102.4	68.2	389	0.9	57.3	9.2	576	2.31	51.4	4.8	65.8	4.5	72	6.0	5.8	4.6	84	0.92
STD DS7	Standard	19.9	114.4	63.5	412	0.8	57.7	9.3	662	2.47	54.4	4.8	70.6	4.2	80	6.4	5.9	4.3	88	1.04
STD DS7	Standard	20.1	106.9	70.3	389	0.9	52.1	9.5	630	2.44	52.0	4.8	64.1	4.7	81	6.7	5.9	4.7	83	1.01
STD DS7	Standard	19.2	105.0	62.0	362	0.8	50.6	9.2	585	2.30	50.3	4.5	66.4	3.8	69	6.0	5.4	4.1	79	0.88
STD DS7	Standard	20.8	113.6	70.8	389	0.8	58.4	10.0	635	2.42	51.9	5.0	61.9	4.6	74	6.7	6.3	4.8	88	0.95
STD DS7	Standard	22.1	117.6	68.2	401	0.9	60.2	10.0	644	2.48	52.2	5.1	83.8	4.4	69	6.6	5.6	4.3	89	0.97
STD DS7	Standard	20.1	107.6	56.9	371	0.8	54.5	9.2	565	2.22	48.5	4.2	58.3	3.8	66	5.8	5.5	3.8	81	0.89
STD DS7 Expected		20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	4.6	4.5	84	0.93
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.02	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01



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		1DX15 La ppm	1DX15 Cr ppm	1DX15 Mg %	1DX15 Ba ppm	1DX15 Ti %	1DX15 B ppm	1DX15 Al %	1DX15 Na %	1DX15 K %	1DX15 W ppm	1DX15 Hg ppm	1DX15 Sc ppm	1DX15 Ti ppm	1DX15 S %	1DX15 Ga ppm	1DX15 Se ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
STD DS7	Standard	13	194	1.01	407	0.114	38	0.95	0.107	0.45	3.7	0.18	2.5	4.1	0.17	5	3.6
STD DS7	Standard	14	210	1.06	424	0.134	41	1.05	0.111	0.49	3.7	0.20	2.8	4.1	0.19	5	3.1
STD DS7	Standard	14	221	1.05	413	0.129	41	1.10	0.104	0.46	3.6	0.19	2.7	4.2	0.22	5	3.4
STD DS7	Standard	12	187	1.00	382	0.122	38	1.00	0.095	0.43	3.6	0.19	2.5	3.8	0.22	4	3.3
STD DS7	Standard	14	205	0.99	399	0.125	35	1.00	0.099	0.43	3.9	0.19	2.6	4.4	0.19	5	3.6
STD DS7	Standard	12	208	1.07	403	0.131	36	1.05	0.091	0.44	4.0	0.20	2.6	4.5	0.23	5	3.7
STD DS7	Standard	12	173	0.95	380	0.119	35	0.94	0.085	0.40	3.7	0.17	2.4	3.9	0.17	5	3.4
STD DS7 Expected		12	179	1.05	370	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5